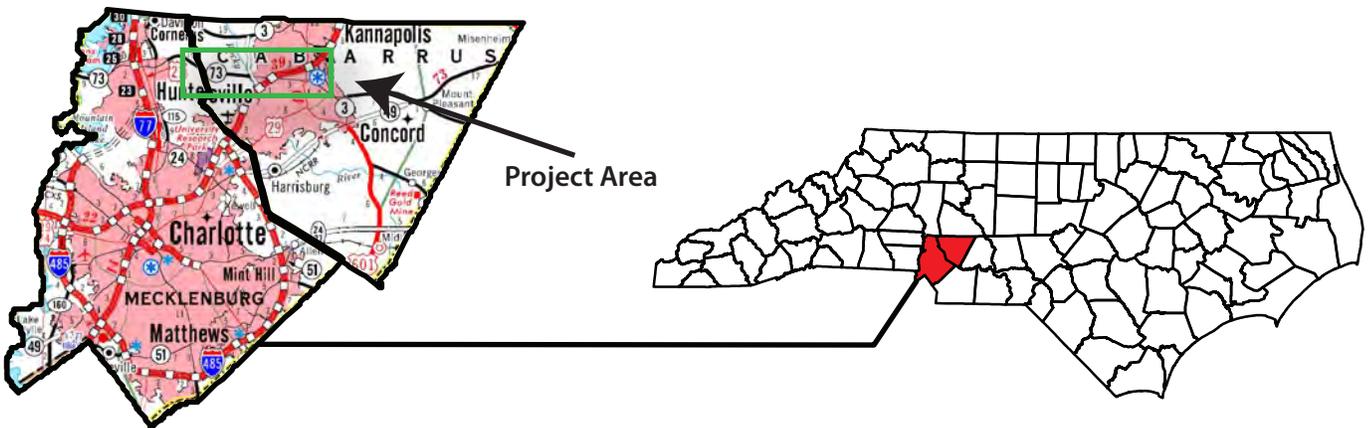
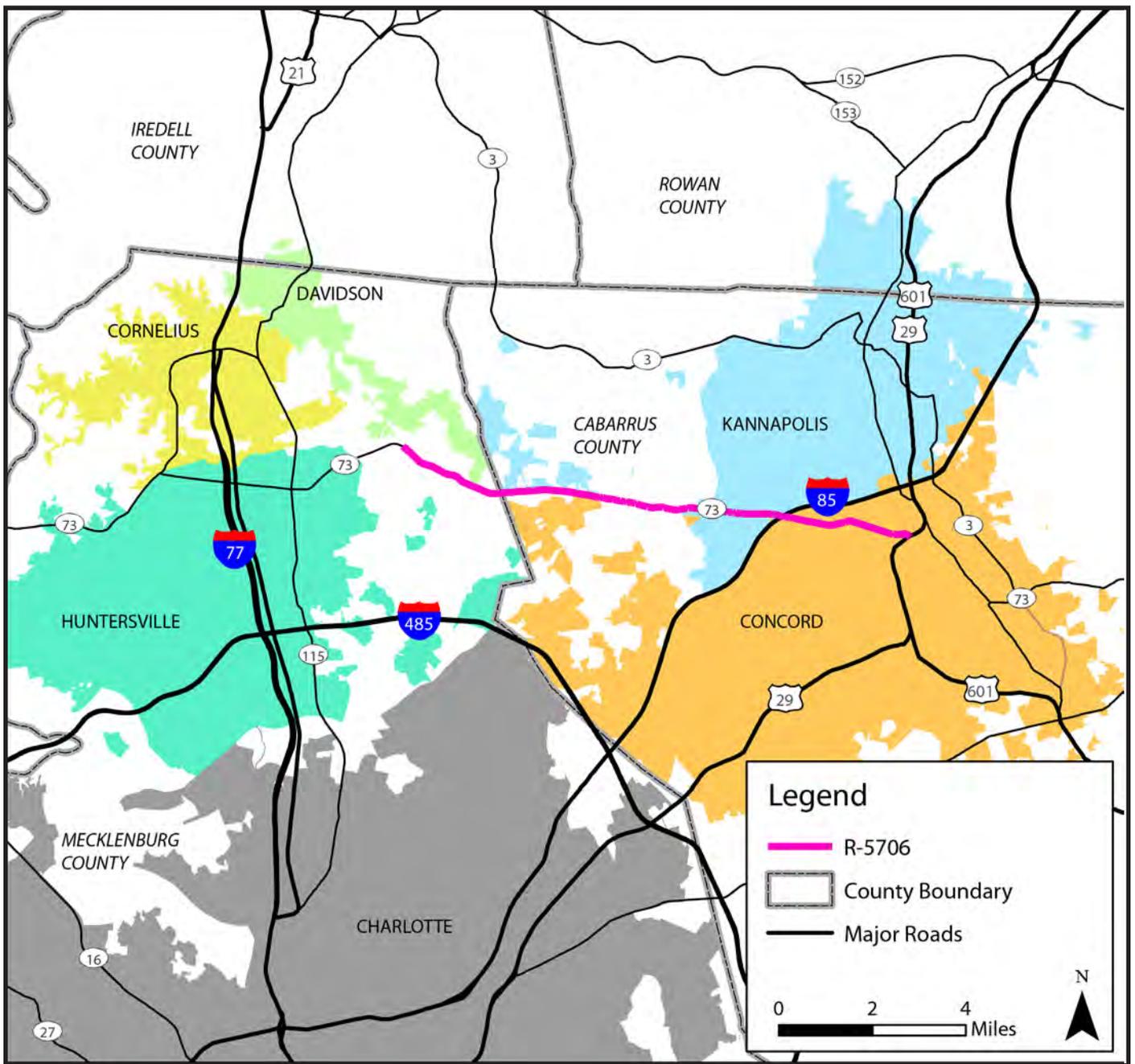


Appendix A

Project Vicinity and Study Area Maps

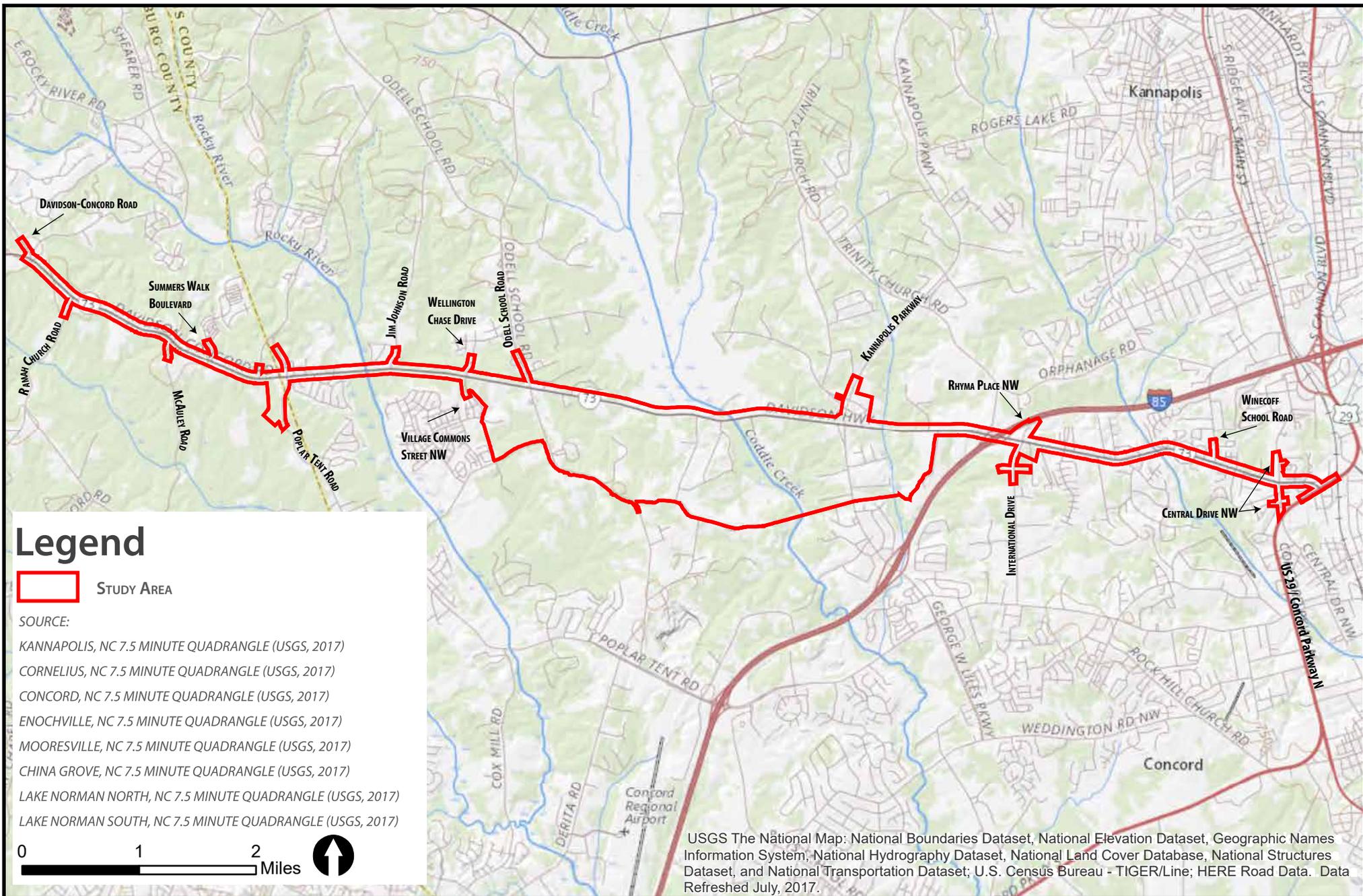


Project Vicinity Map

Widening of NC 73 from Davidson - Concord Road to US 29,
Mecklenburg and Cabarrus Counties

STIP PROJECT R-5706

Figure 2



Study Area Map

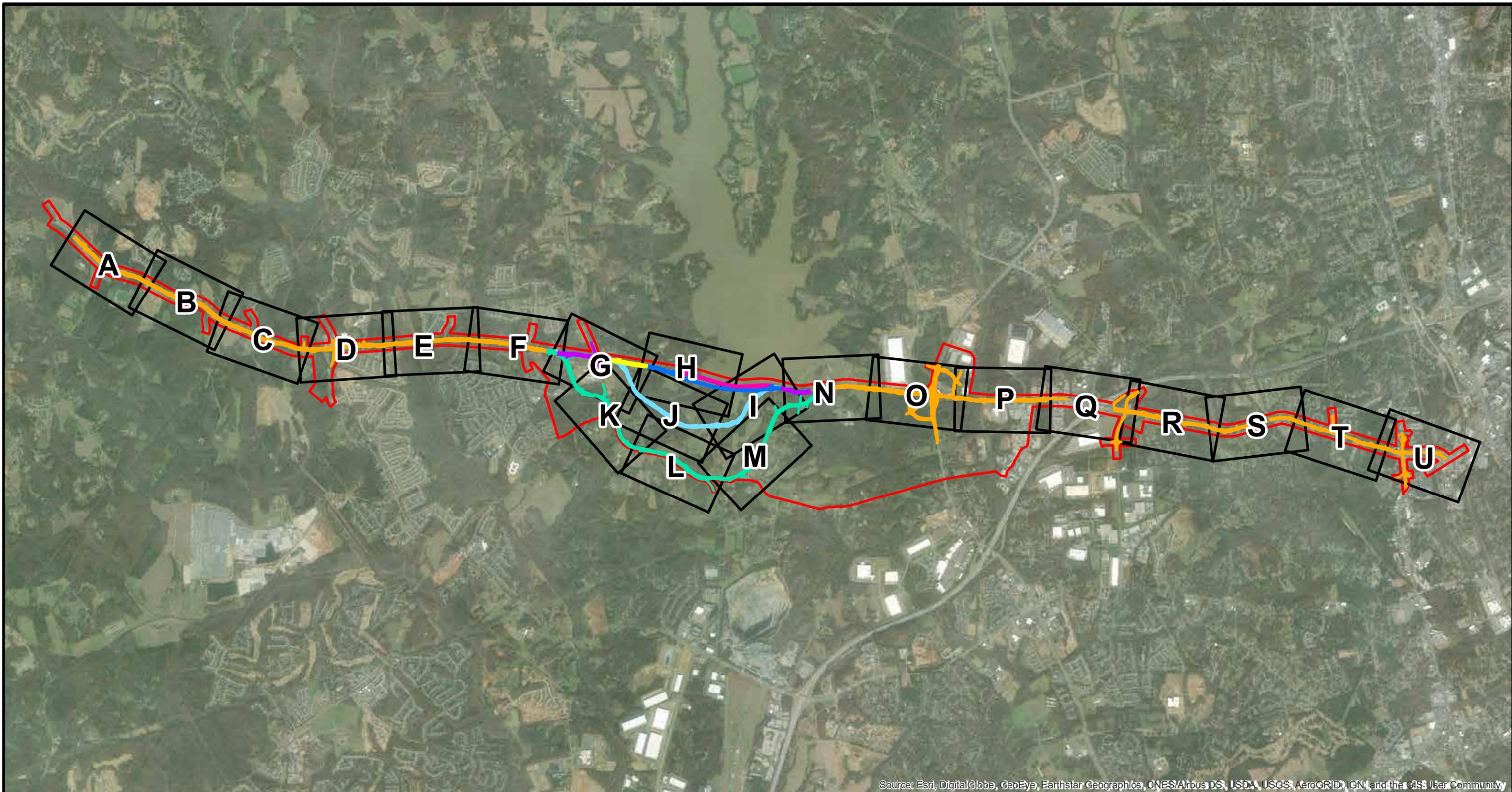
Widening of NC 73 from Davidson-Concord Road to US 29

TIP No: R-5706 | WBS #: 46378.1.1
 Mecklenburg and Cabarrus Counties
 April 2019

FIGURE 3

Appendix B

Jurisdictional Features Impacts Maps (All Alternatives)



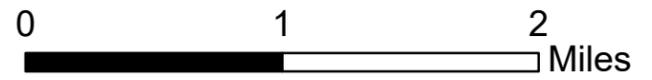
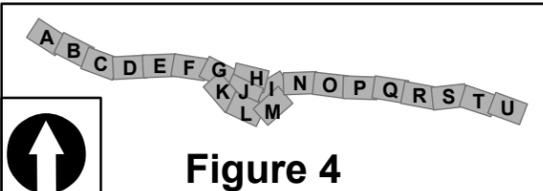
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

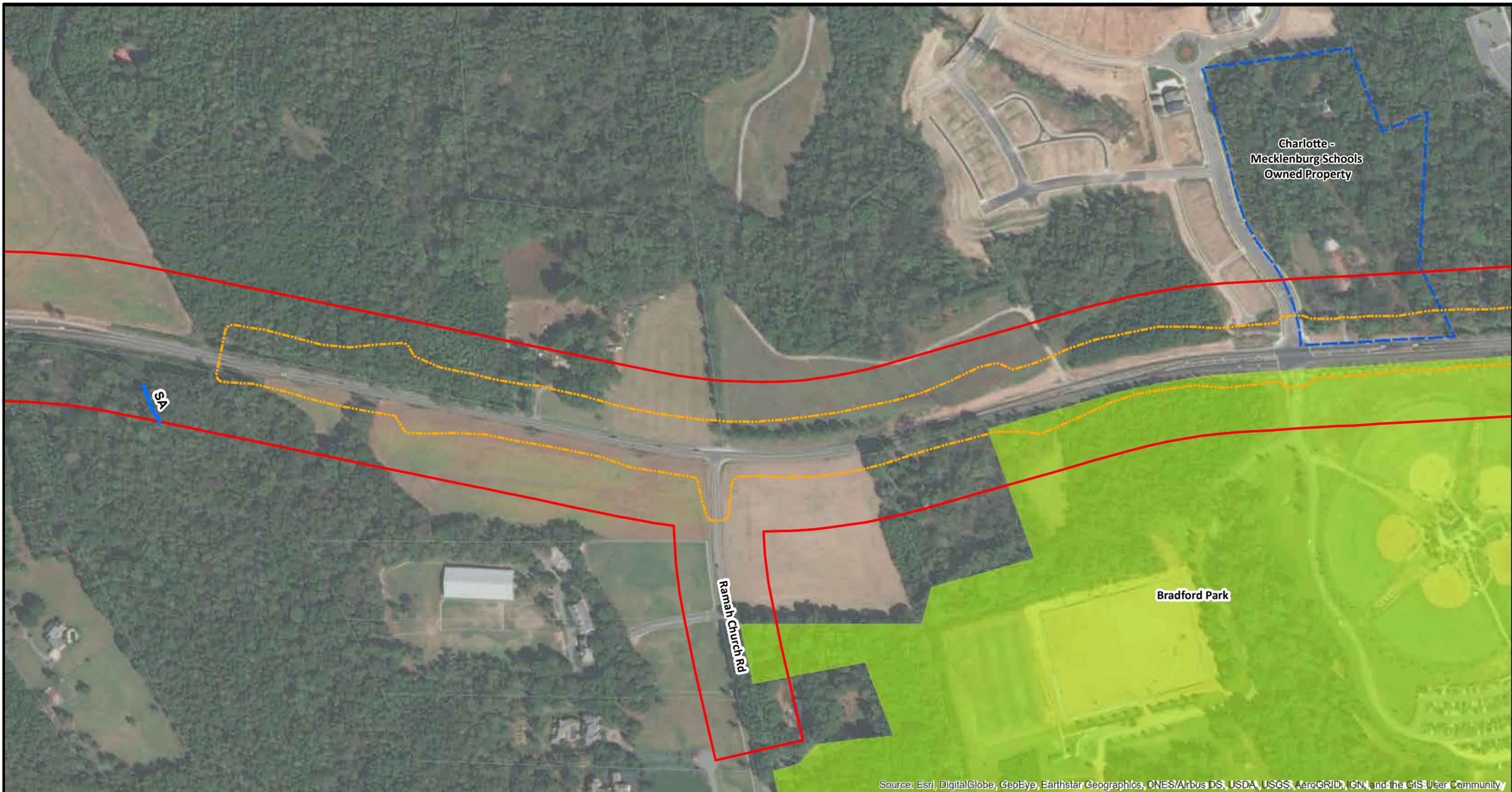
 Page Number
 Study Area

 Alternative 1 (modified)
 Alternative 2
 Alternative 3
 Alternative 4

 Alternative 1 (modified) , 2, 3 & 4
 Alternative 1 (modified) , 2 & 4
 Alternative 1 (modified) & 2

Jurisdictional Features Impacts Map
 R-5706 - NC 73 Widening from Davidson-Concord
 Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

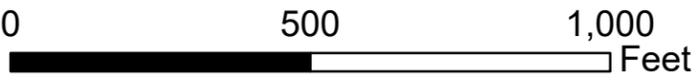
- | | | | |
|--|---|--|---|
| <ul style="list-style-type: none"> --- Alternative 1 (modified), 2, 3 & 4 --- Alternative 1 (modified), 2 & 4 --- Alternative 1 (modified) & 2 --- Alternative 1 (modified) --- Alternative 2 --- Alternative 3 --- Alternative 4 | <ul style="list-style-type: none"> ▲ HazMat 🚩 Schools ✙ Cemeteries ◆ Places of Worship ● Local Landmarks --- Planned Greenways ■ Park & Recreational Space | <ul style="list-style-type: none"> ▨ Delineated Wetlands ■ Delineated Streams ■ Delineated Open Waters ■ Water Supply Watershed ■ VAD Parcels ▨ Conservation Easements ■ Eligible Historic Properties | <ul style="list-style-type: none"> ■ Impacted Wetlands ■ Impacted Streams ■ Impacted Open Waters |
|--|---|--|---|
- Study Area
 Preliminary Major Hydraulic Crossing

Jurisdictional Features Impacts Map

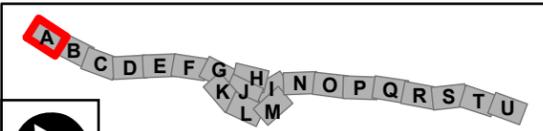
R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
Mecklenburg and Cabarrus Counties
November 2019
Impacts based on slope stakes + 25'

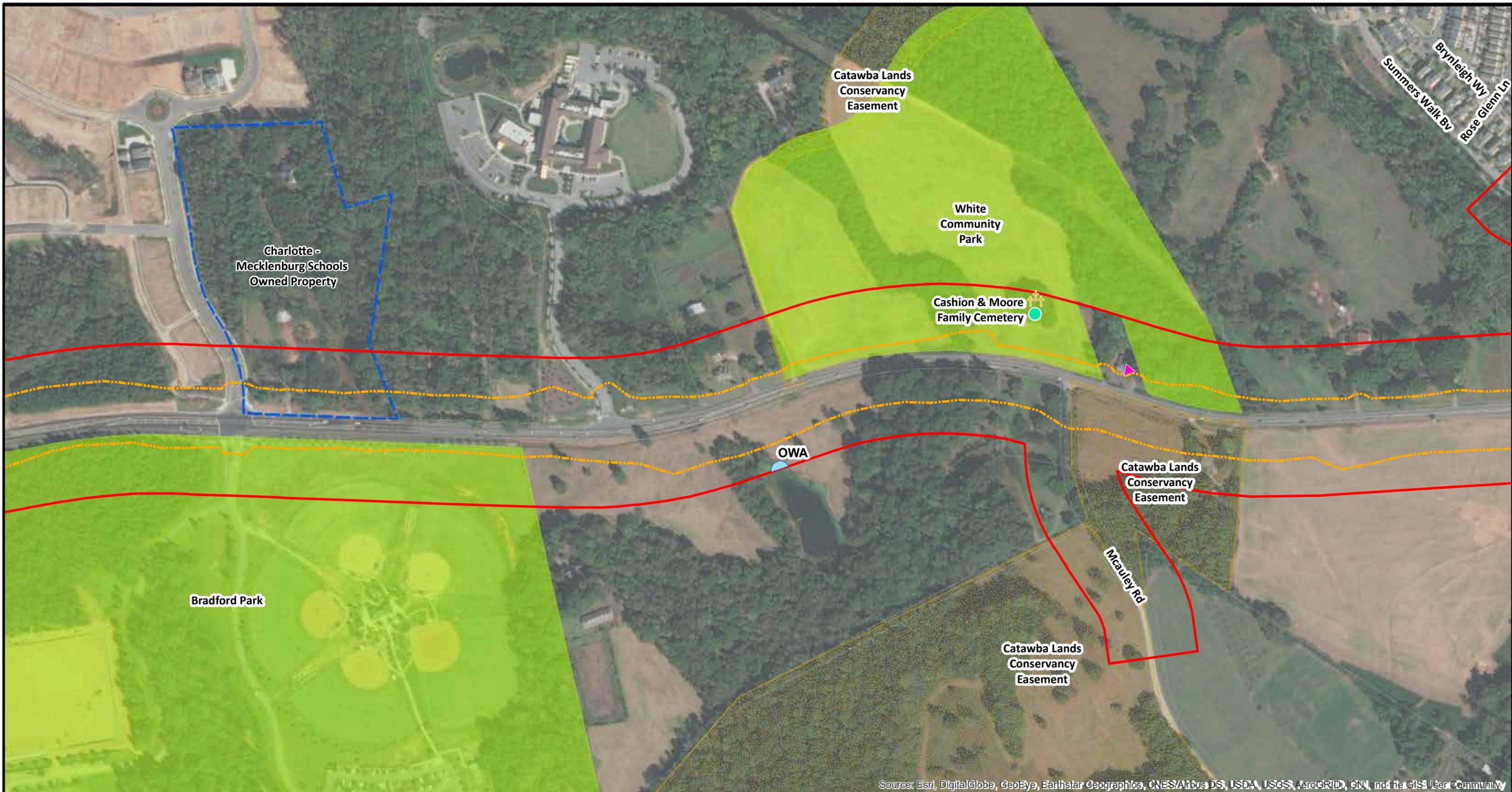


Figure 4A

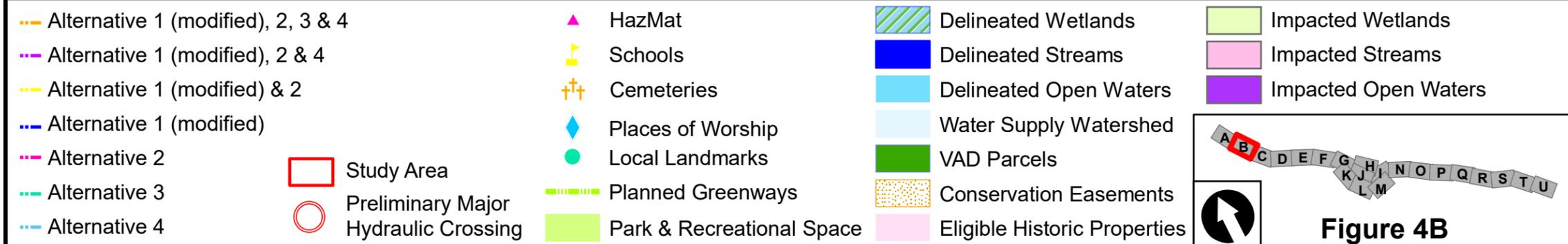


0 500 1,000 Feet



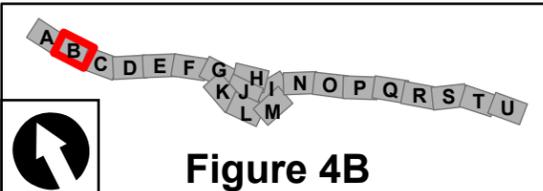


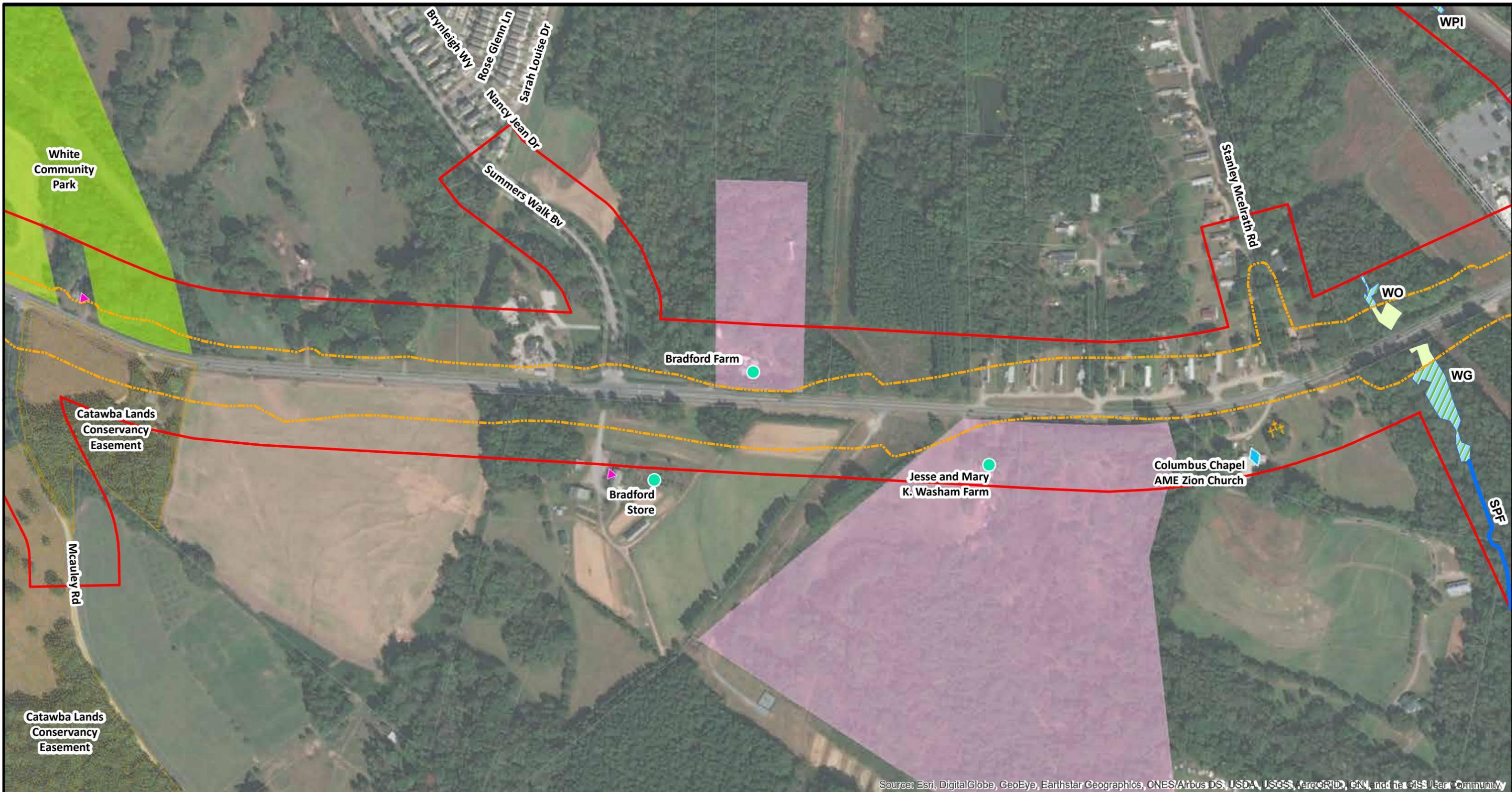
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



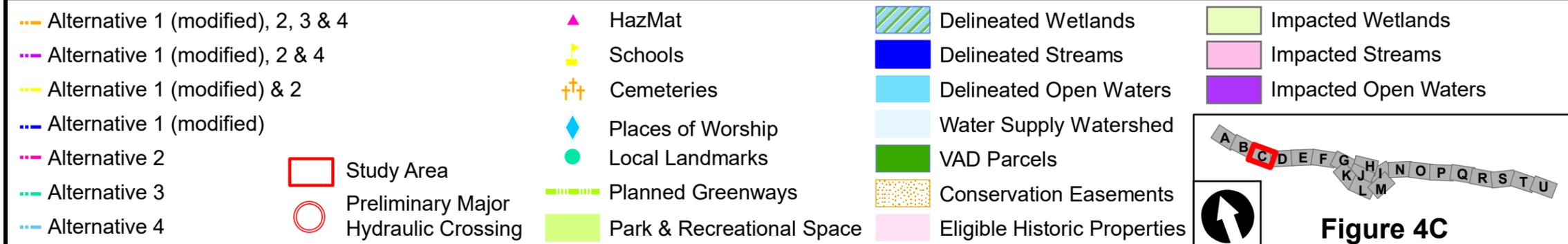
Jurisdictional Features Impacts Map
 R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000 Feet





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Jurisdictional Features Impacts Map

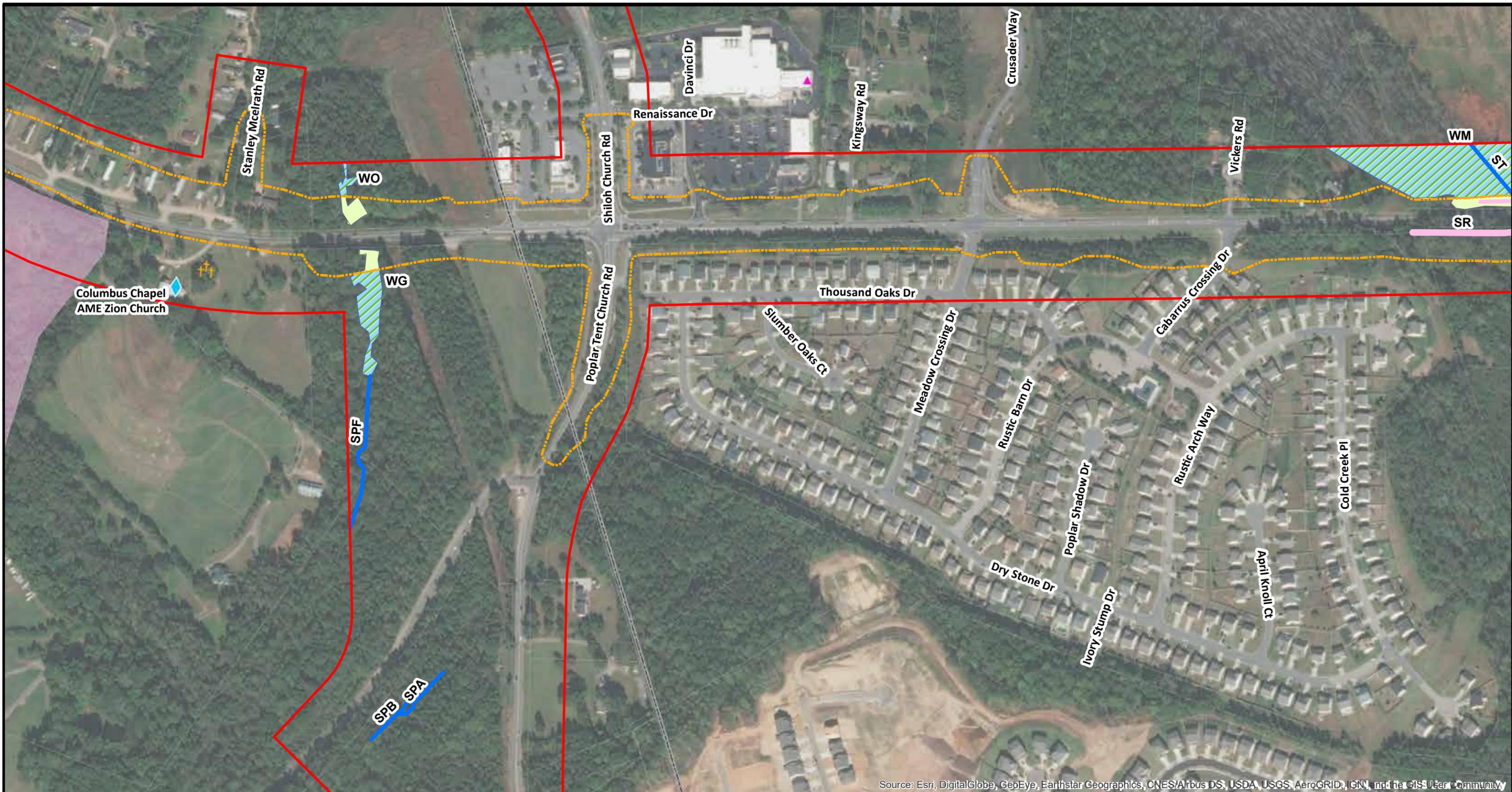
R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
Mecklenburg and Cabarrus Counties
November 2019
Impacts based on slope stakes + 25'

0

500

1,000

Feet



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

<ul style="list-style-type: none"> --- Alternative 1 (modified), 2, 3 & 4 --- Alternative 1 (modified), 2 & 4 --- Alternative 1 (modified) & 2 --- Alternative 1 (modified) --- Alternative 2 --- Alternative 3 --- Alternative 4 	<ul style="list-style-type: none"> Study Area Preliminary Major Hydraulic Crossing 	<ul style="list-style-type: none"> HazMat Schools Cemeteries Places of Worship Local Landmarks Planned Greenways Park & Recreational Space 	<ul style="list-style-type: none"> Delineated Wetlands Delineated Streams Delineated Open Waters Water Supply Watershed VAD Parcels Conservation Easements Eligible Historic Properties 	<ul style="list-style-type: none"> Impacted Wetlands Impacted Streams Impacted Open Waters
--	--	---	--	---

Jurisdictional Features Impacts Map

R-5706 - NC 73 Widening from Davidson-Concord Road to US 29

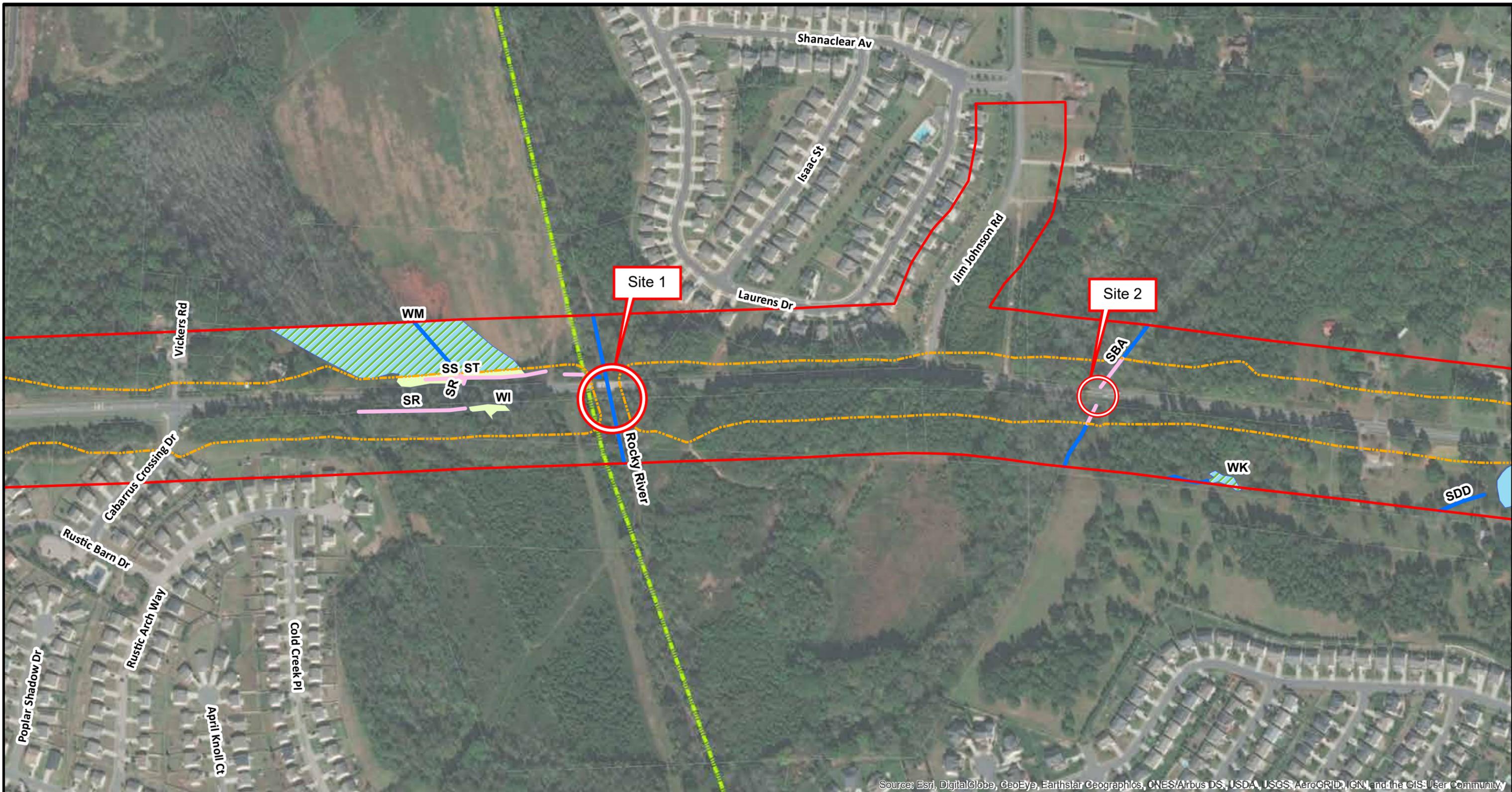
Mecklenburg and Cabarrus Counties

November 2019

Impacts based on slope stakes + 25'

0 500 1,000 Feet

Figure 4D



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

--- Alternative 1 (modified), 2, 3 & 4	▲ HazMat	▨ Delineated Wetlands	■ Impacted Wetlands
--- Alternative 1 (modified), 2 & 4	🚩 Schools	■ Delineated Streams	■ Impacted Streams
--- Alternative 1 (modified) & 2	⛪ Cemeteries	■ Delineated Open Waters	■ Impacted Open Waters
--- Alternative 1 (modified)	⛪ Places of Worship	■ Water Supply Watershed	
--- Alternative 2	● Local Landmarks	■ VAD Parcels	
--- Alternative 3	--- Planned Greenways	■ Conservation Easements	
--- Alternative 4	■ Park & Recreational Space	■ Eligible Historic Properties	
□ Study Area			
○ Preliminary Major Hydraulic Crossing			

Jurisdictional Features Impacts Map
 R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000 Feet

Figure 4E



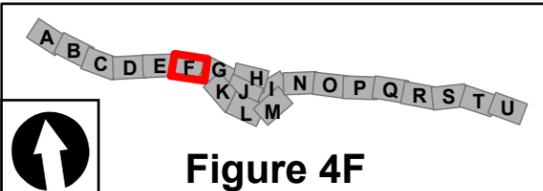
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Alternative 1 (modified), 2, 3 & 4
- Alternative 1 (modified), 2 & 4
- Alternative 1 (modified) & 2
- Alternative 1 (modified)
- Alternative 2
- Alternative 3
- Alternative 4
- Study Area
- Preliminary Major Hydraulic Crossing

- ▲ HazMat
- 🚩 Schools
- ✙ Cemeteries
- ◆ Places of Worship
- Local Landmarks
- +—+—+—+— Planned Greenways
- Park & Recreational Space

- Delineated Wetlands
- Delineated Streams
- Delineated Open Waters
- Water Supply Watershed
- VAD Parcels
- Conservation Easements
- Eligible Historic Properties

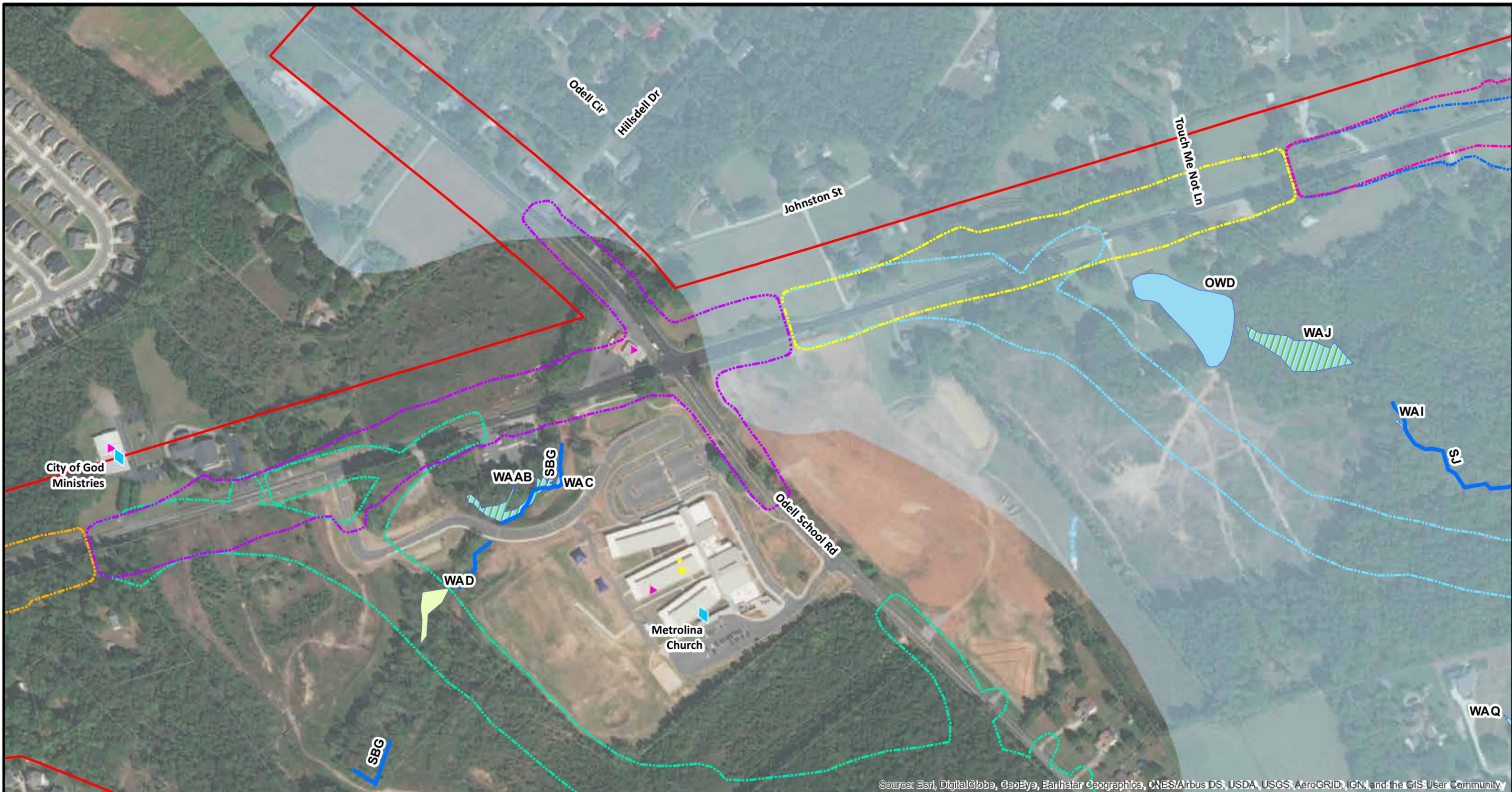
- Impacted Wetlands
- Impacted Streams
- Impacted Open Waters



Jurisdictional Features Impacts Map
 R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000 Feet

Figure 4F



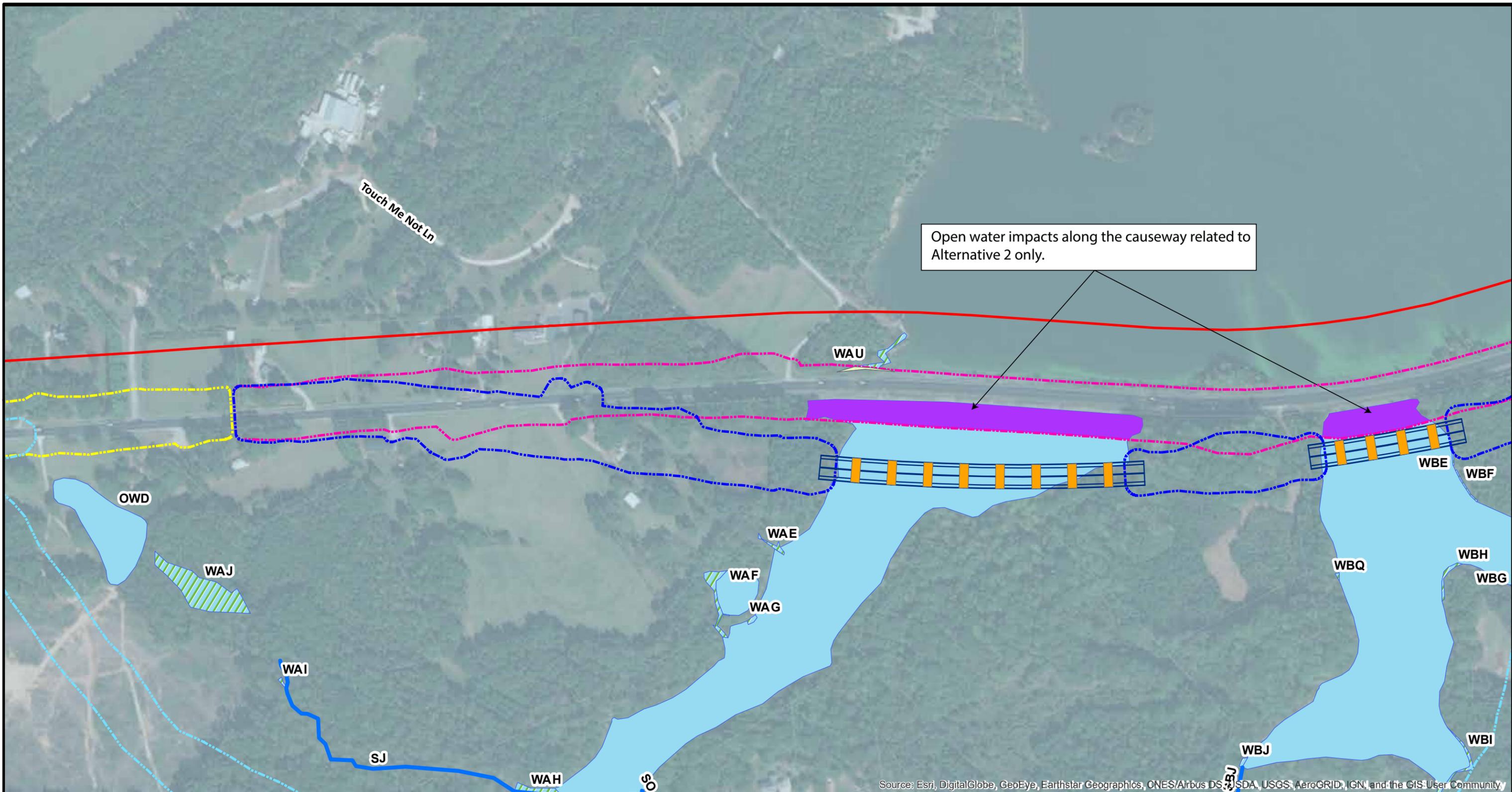
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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--	---	--	---

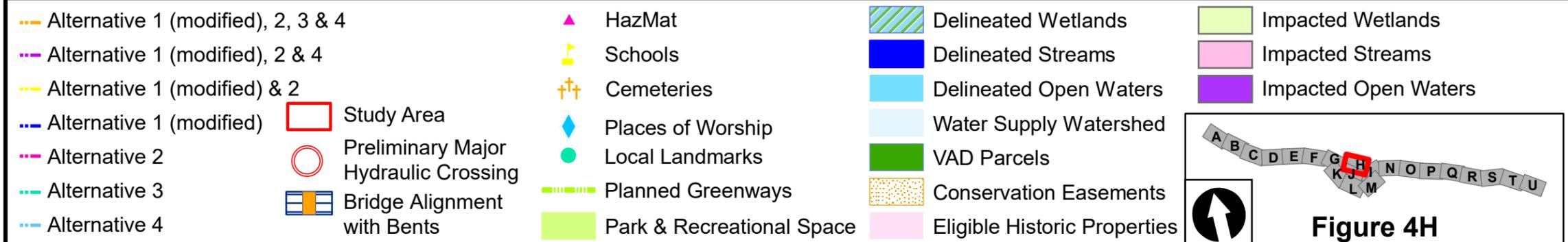
Jurisdictional Features Impacts Map
 R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000 Feet

Figure 4G



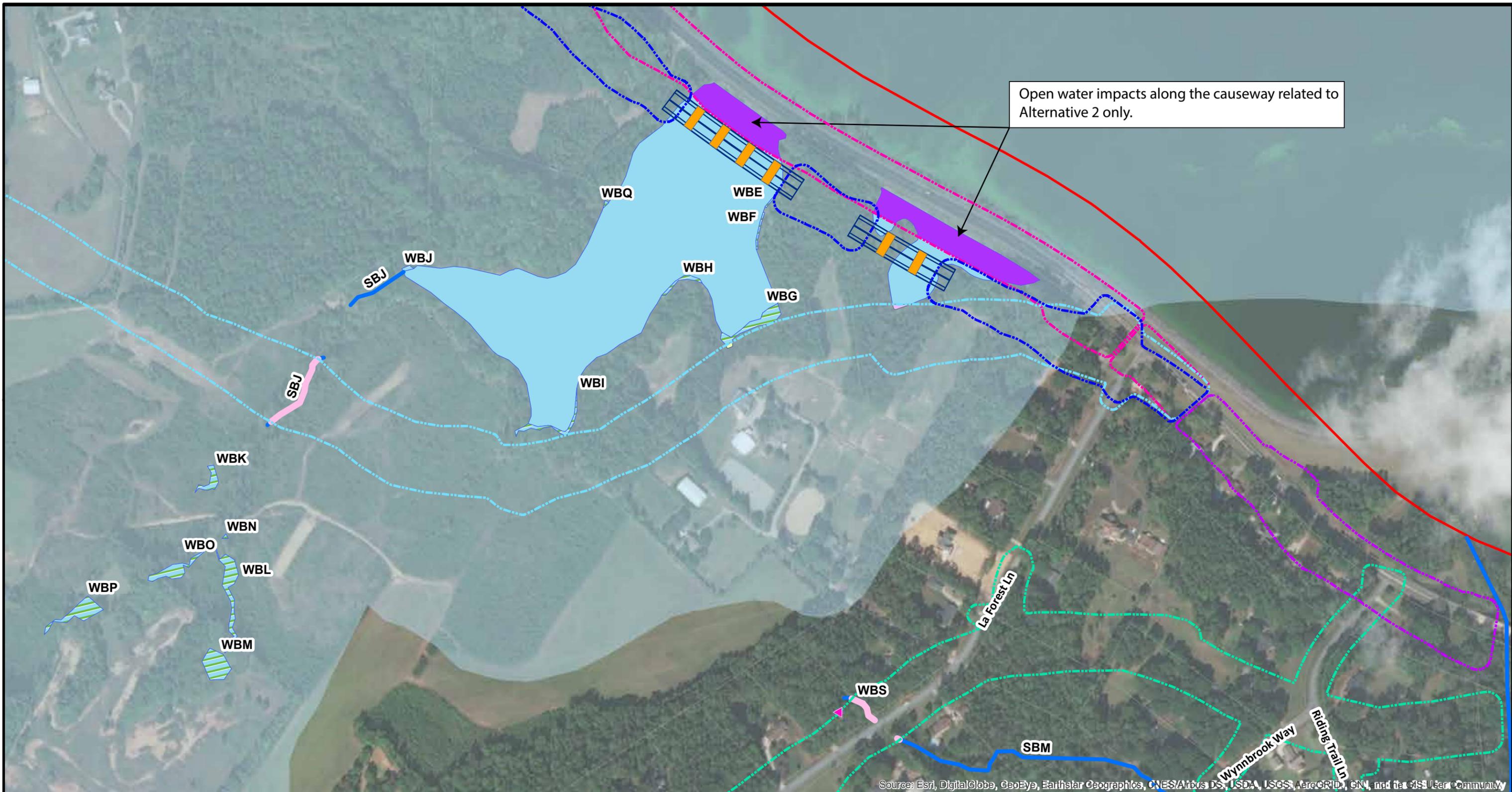
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Jurisdictional Features Impacts Map
 R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000 Feet

Figure 4H

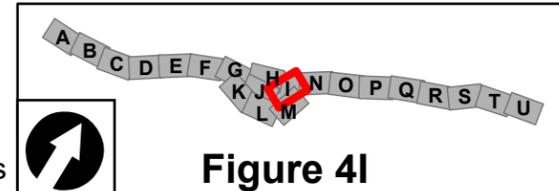


Open water impacts along the causeway related to Alternative 2 only.

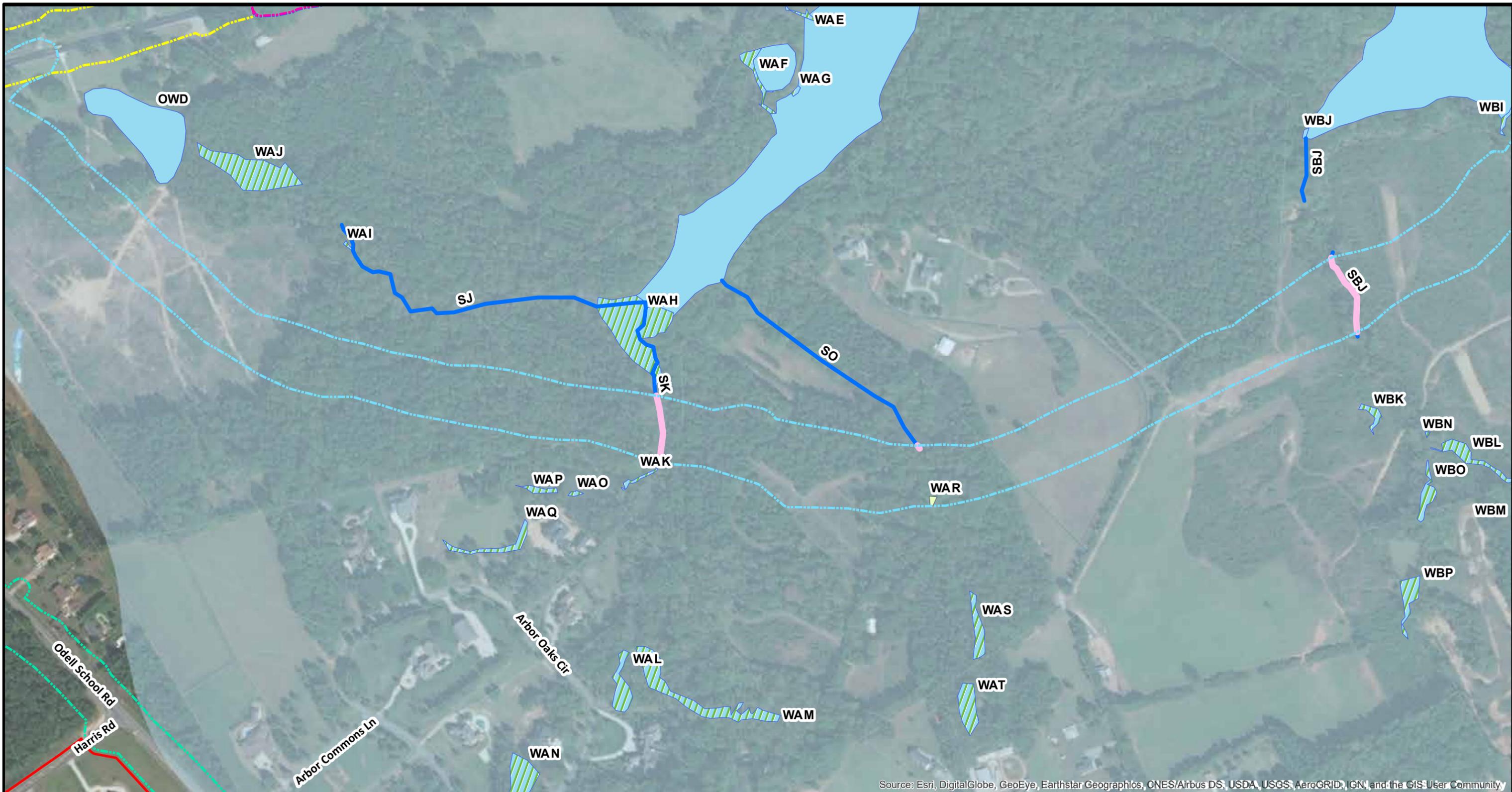
- | | | | |
|--|---|--|---|
| <ul style="list-style-type: none"> --- Alternative 1 (modified), 2, 3 & 4 --- Alternative 1 (modified), 2 & 4 --- Alternative 1 (modified) & 2 --- Alternative 1 (modified) --- Alternative 2 --- Alternative 3 --- Alternative 4 | <ul style="list-style-type: none"> ▲ HazMat 🚩 Schools ⛪ Cemeteries ◆ Places of Worship ● Local Landmarks --- Planned Greenways ■ Park & Recreational Space | <ul style="list-style-type: none"> ▨ Delineated Wetlands ■ Delineated Streams ■ Delineated Open Waters ■ Water Supply Watershed ■ VAD Parcels ▨ Conservation Easements ■ Eligible Historic Properties | <ul style="list-style-type: none"> ■ Impacted Wetlands ■ Impacted Streams ■ Impacted Open Waters |
|--|---|--|---|

Jurisdictional Features Impacts Map
 R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

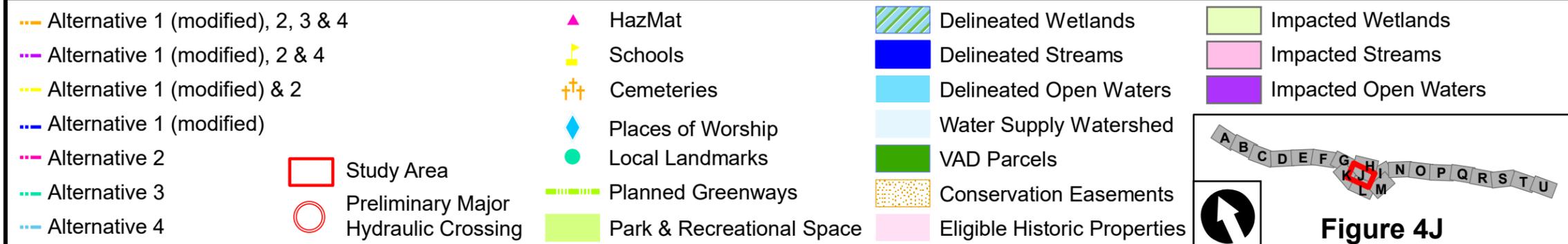
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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



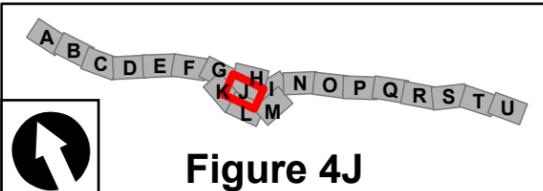
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

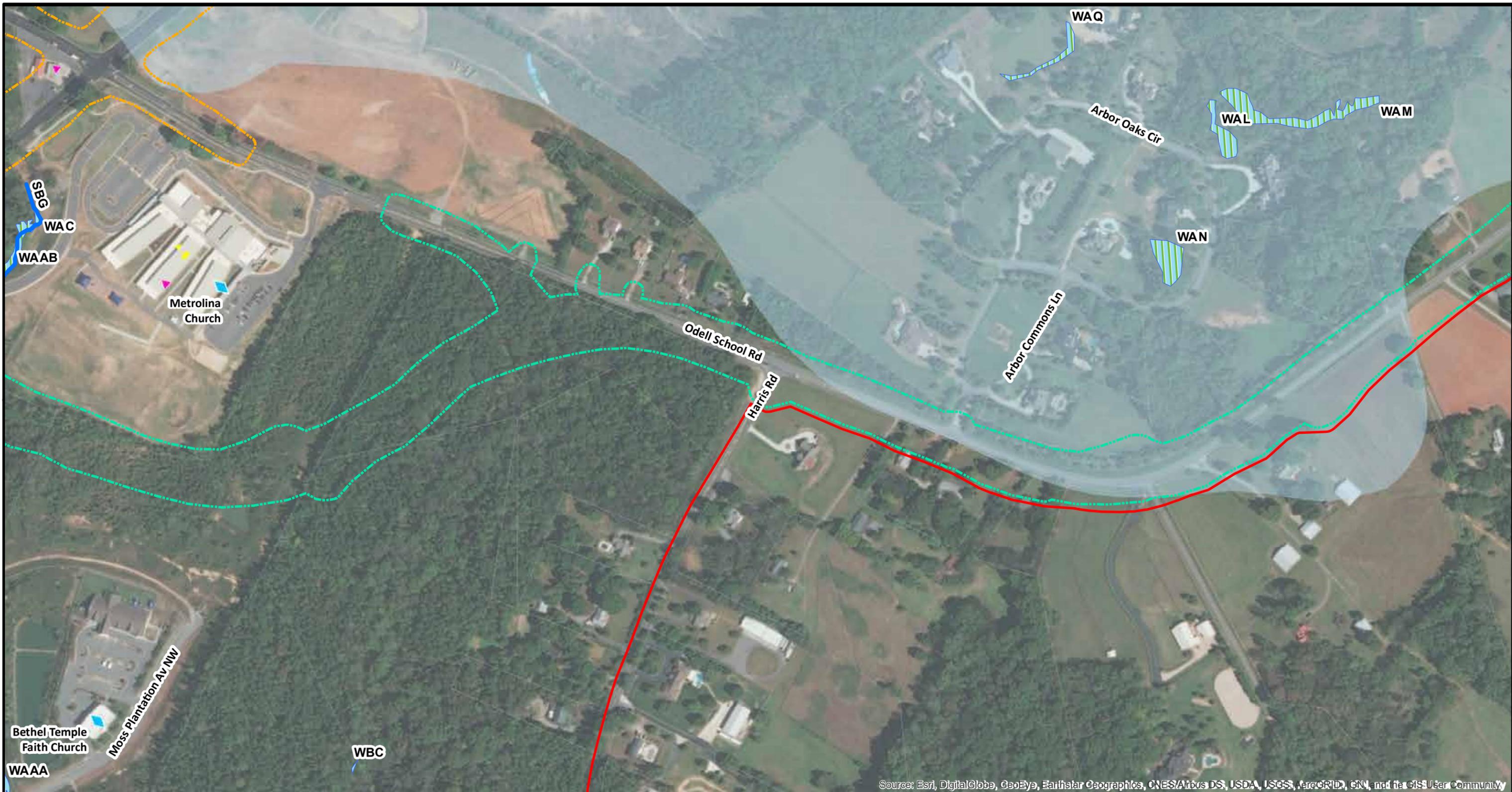


Jurisdictional Features Impacts Map

R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000 Feet





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Alternative 1 (modified), 2, 3 & 4
- Alternative 1 (modified), 2 & 4
- Alternative 1 (modified) & 2
- Alternative 1 (modified)
- Alternative 2
- Alternative 3
- Alternative 4
- Study Area
- Preliminary Major Hydraulic Crossing

- HazMat
- Schools
- Cemeteries
- Places of Worship
- Local Landmarks
- Planned Greenways
- Park & Recreational Space

- Delineated Wetlands
- Delineated Streams
- Delineated Open Waters
- Water Supply Watershed
- VAD Parcels
- Conservation Easements
- Eligible Historic Properties

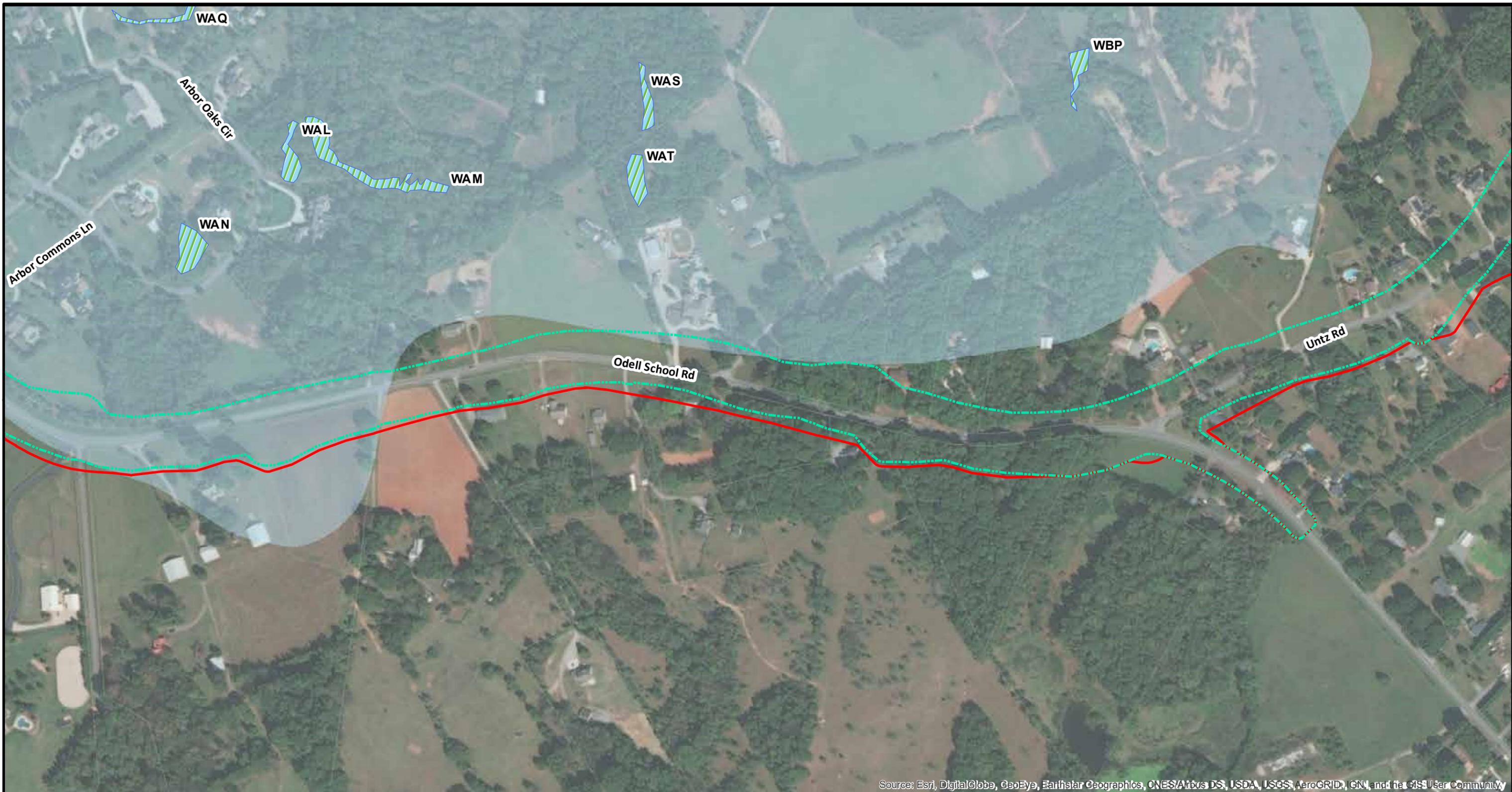
- Impacted Wetlands
- Impacted Streams
- Impacted Open Waters

Figure 4K

Jurisdictional Features Impacts Map

R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000 Feet



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Alternative 1 (modified), 2, 3 & 4
- Alternative 1 (modified), 2 & 4
- Alternative 1 (modified) & 2
- Alternative 1 (modified)
- Alternative 2
- Alternative 3
- Alternative 4
- Study Area
- Preliminary Major Hydraulic Crossing

- ▲ HazMat
- 🚩 Schools
- ✙ Cemeteries
- ◆ Places of Worship
- Local Landmarks
- +—+—+—+— Planned Greenways
- Park & Recreational Space

- Delineated Wetlands
- Delineated Streams
- Delineated Open Waters
- Water Supply Watershed
- VAD Parcels
- Conservation Easements
- Eligible Historic Properties

- Impacted Wetlands
- Impacted Streams
- Impacted Open Waters

A B C D E F G H I J K L M N O P Q R S T U

K L M

Figure 4L

Jurisdictional Features Impacts Map

R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
Mecklenburg and Cabarrus Counties
November 2019
Impacts based on slope stakes + 25'

0 500 1,000
Feet



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Alternative 1 (modified), 2, 3 & 4
- Alternative 1 (modified), 2 & 4
- Alternative 1 (modified) & 2
- Alternative 1 (modified)
- Alternative 2
- Alternative 3
- Alternative 4
- Study Area
- Preliminary Major Hydraulic Crossing

- ▲ HazMat
- 🚩 Schools
- ✙ Cemeteries
- ◆ Places of Worship
- Local Landmarks
- +—+—+—+— Planned Greenways
- Park & Recreational Space

- Delineated Wetlands
- Delineated Streams
- Delineated Open Waters
- Water Supply Watershed
- VAD Parcels
- Conservation Easements
- Eligible Historic Properties

- Impacted Wetlands
- Impacted Streams
- Impacted Open Waters

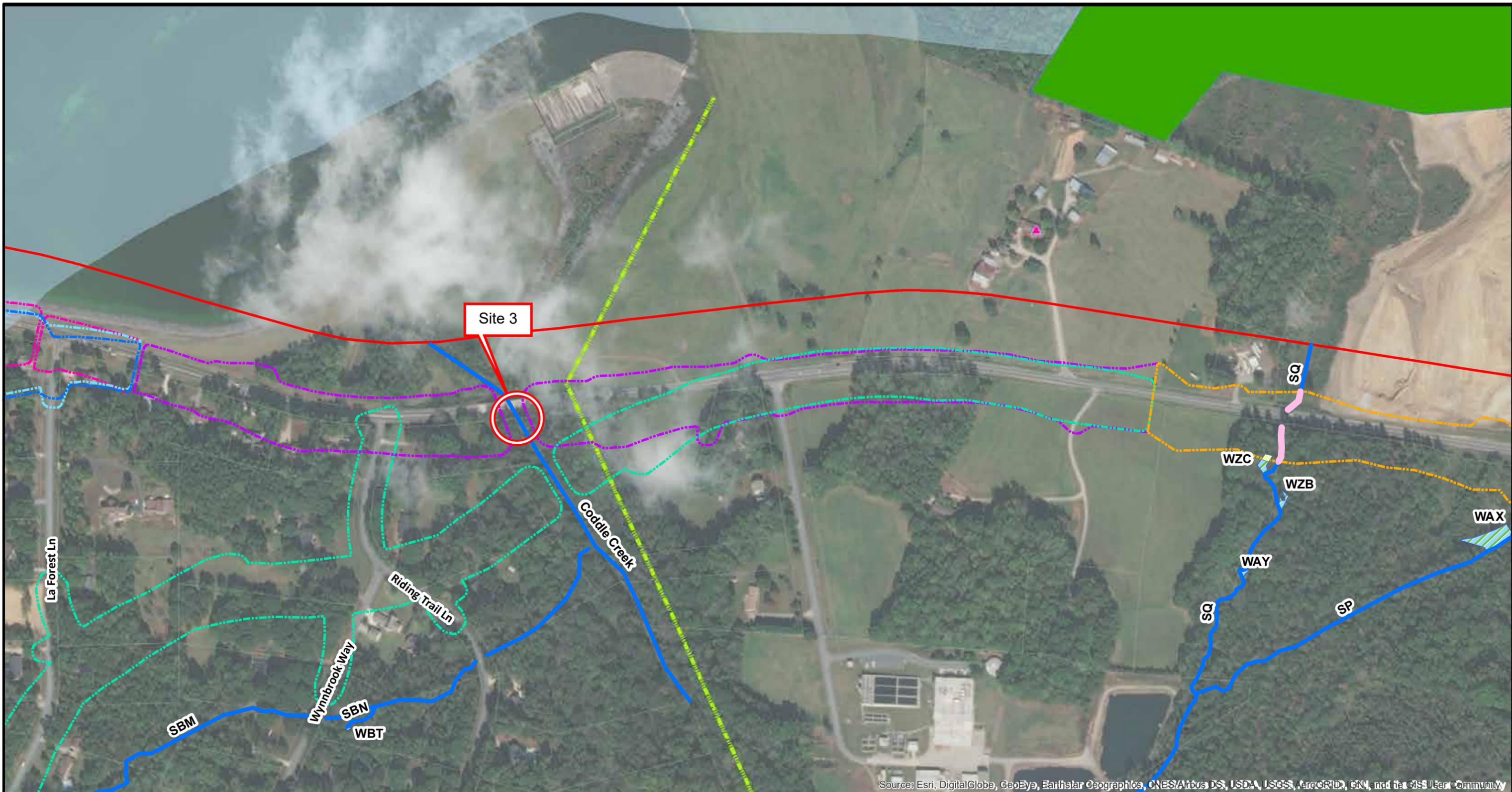
Figure 4M

Jurisdictional Features Impacts Map

R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000

Feet



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

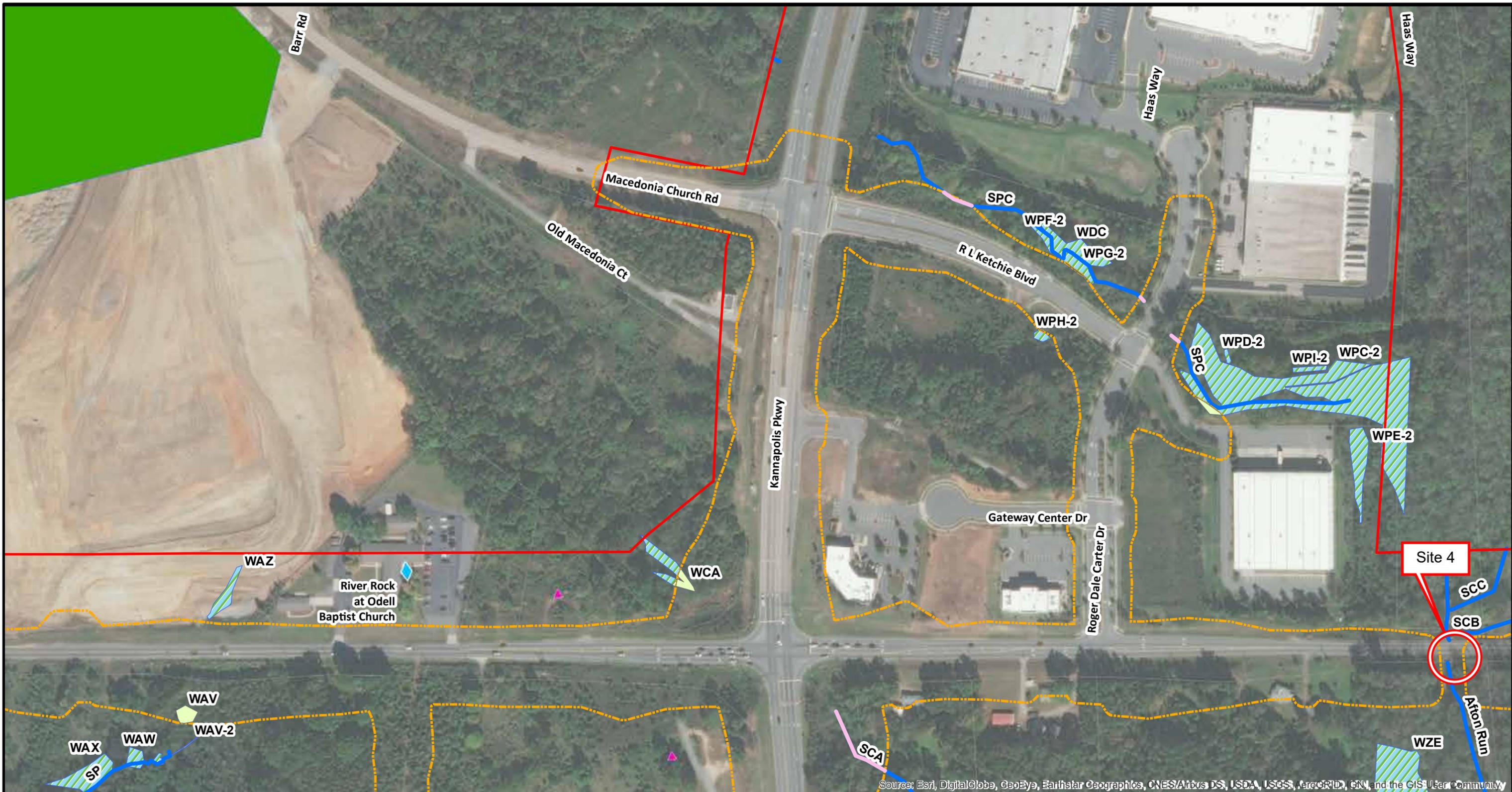
--- Alternative 1 (modified), 2, 3 & 4	▲ HazMat	▨ Delineated Wetlands	▨ Impacted Wetlands
--- Alternative 1 (modified), 2 & 4	🚩 Schools	▨ Delineated Streams	▨ Impacted Streams
--- Alternative 1 (modified) & 2	⛪ Cemeteries	▨ Delineated Open Waters	▨ Impacted Open Waters
--- Alternative 1 (modified)	⛪ Places of Worship	▨ Water Supply Watershed	
--- Alternative 2	● Local Landmarks	▨ VAD Parcels	
--- Alternative 3	--- Planned Greenways	▨ Conservation Easements	
--- Alternative 4	▨ Park & Recreational Space	▨ Eligible Historic Properties	
▭ Study Area			
○ Preliminary Major Hydraulic Crossing			

Jurisdictional Features Impacts Map

R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000 Feet

Figure 4N



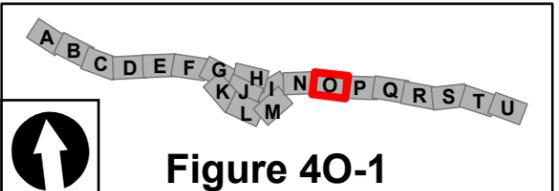
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Alternative 1 (modified), 2, 3 & 4
- Alternative 1 (modified), 2 & 4
- Alternative 1 (modified) & 2
- Alternative 1 (modified)
- Alternative 2
- Alternative 3
- Alternative 4
- Study Area
- Preliminary Major Hydraulic Crossing

- HazMat
- Schools
- Cemeteries
- Places of Worship
- Local Landmarks
- Planned Greenways
- Park & Recreational Space

- Delineated Wetlands
- Delineated Streams
- Delineated Open Waters
- Water Supply Watershed
- VAD Parcels
- Conservation Easements
- Eligible Historic Properties

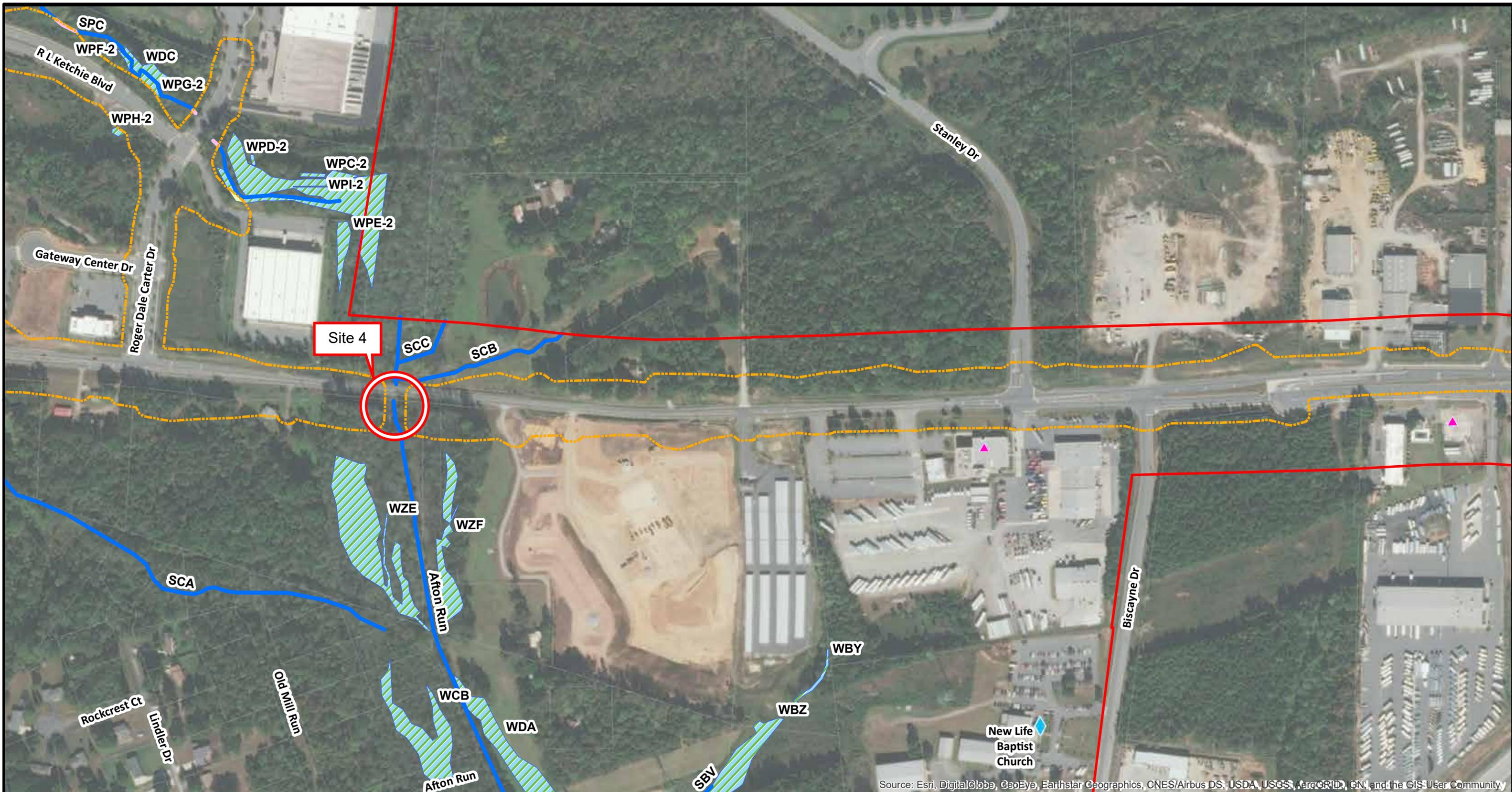
- Impacted Wetlands
- Impacted Streams
- Impacted Open Waters



Jurisdictional Features Impacts Map
 R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 250 500 Feet

Figure 40-1



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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--	--	---	--	---

Jurisdictional Features Impacts Map
 R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000 Feet

Figure 4P



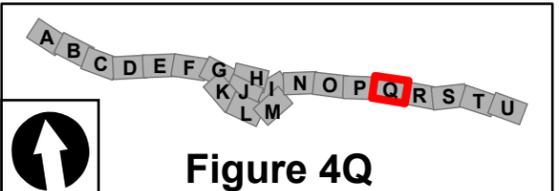
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Alternative 1 (modified), 2, 3 & 4
- Alternative 1 (modified), 2 & 4
- Alternative 1 (modified) & 2
- Alternative 1 (modified)
- Alternative 2
- Alternative 3
- Alternative 4
- Study Area
- Preliminary Major Hydraulic Crossing

- HazMat
- Schools
- Cemeteries
- Places of Worship
- Local Landmarks
- Planned Greenways
- Park & Recreational Space

- Delineated Wetlands
- Delineated Streams
- Delineated Open Waters
- Water Supply Watershed
- VAD Parcels
- Conservation Easements
- Eligible Historic Properties

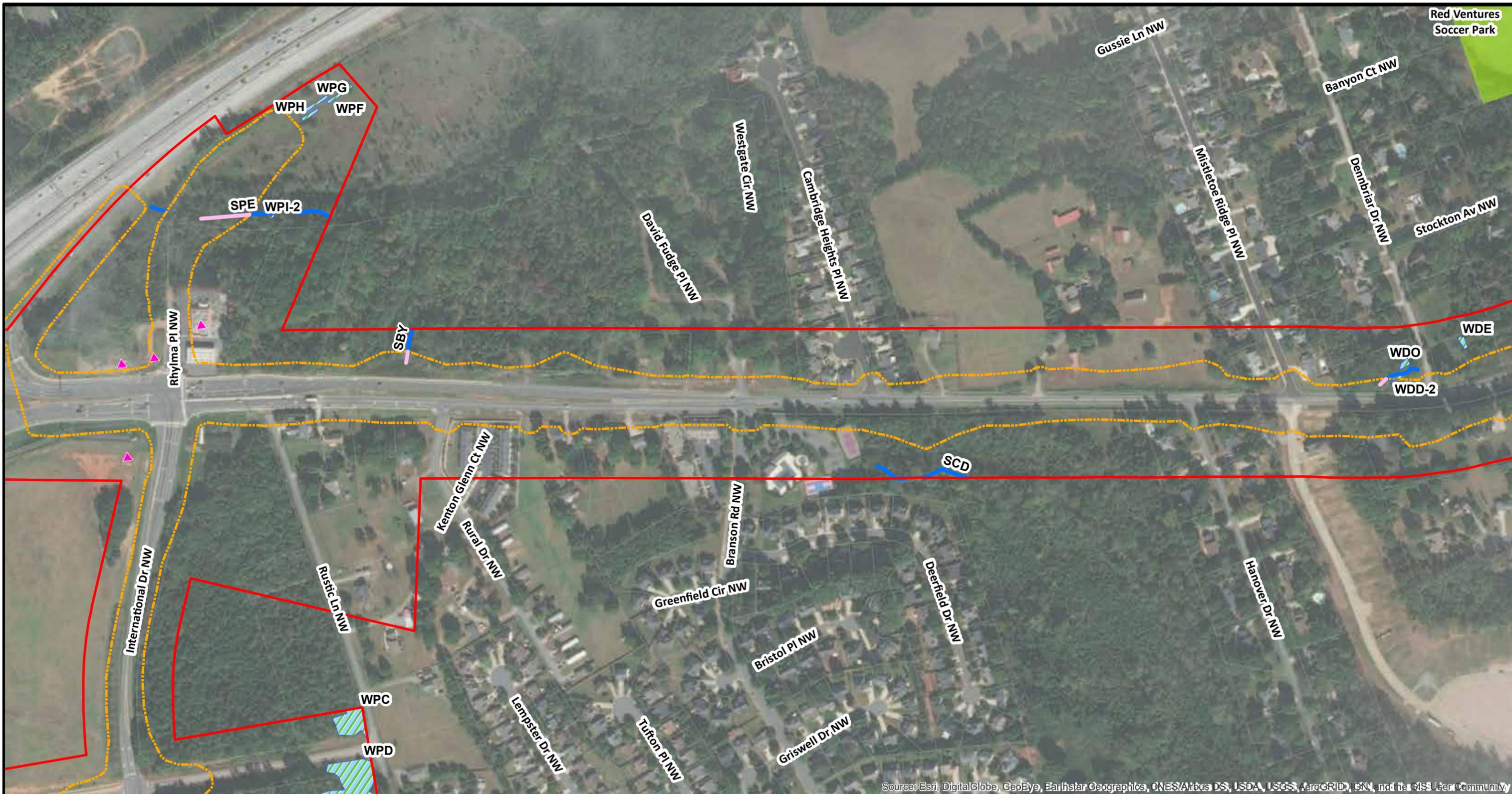
- Impacted Wetlands
- Impacted Streams
- Impacted Open Waters



Jurisdictional Features Impacts Map
 R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
 Mecklenburg and Cabarrus Counties
 November 2019
Impacts based on slope stakes + 25'

0 500 1,000 Feet

Figure 4Q



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

<ul style="list-style-type: none"> --- Alternative 1 (modified), 2, 3 & 4 --- Alternative 1 (modified), 2 & 4 --- Alternative 1 (modified) & 2 --- Alternative 1 (modified) --- Alternative 2 --- Alternative 3 --- Alternative 4 	<ul style="list-style-type: none"> ▲ HazMat 🚩 Schools ⛪ Cemeteries ⬠ Places of Worship ● Local Landmarks --- Planned Greenways ■ Park & Recreational Space 	<ul style="list-style-type: none"> ▨ Delineated Wetlands ■ Delineated Streams ■ Delineated Open Waters ■ Water Supply Watershed ■ VAD Parcels ▨ Conservation Easements ■ Eligible Historic Properties 	<ul style="list-style-type: none"> ■ Impacted Wetlands ■ Impacted Streams ■ Impacted Open Waters
--	---	--	---

Study Area
 Preliminary Major Hydraulic Crossing

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

Figure 4R

Jurisdictional Features Impacts Map

R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
Mecklenburg and Cabarrus Counties
November 2019
Impacts based on slope stakes + 25'

0

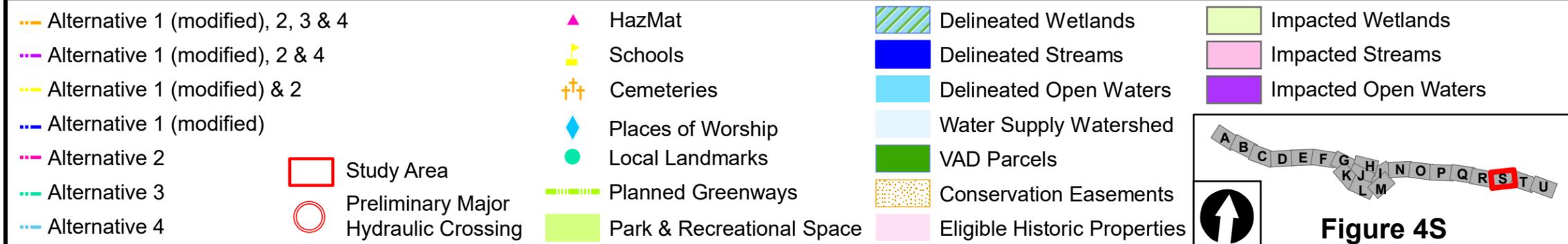
500

1,000

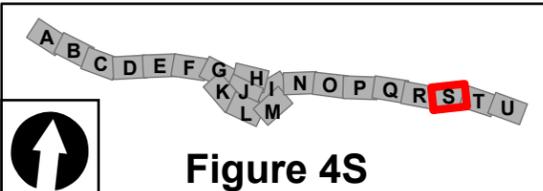
Feet



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Study Area
 Preliminary Major Hydraulic Crossing

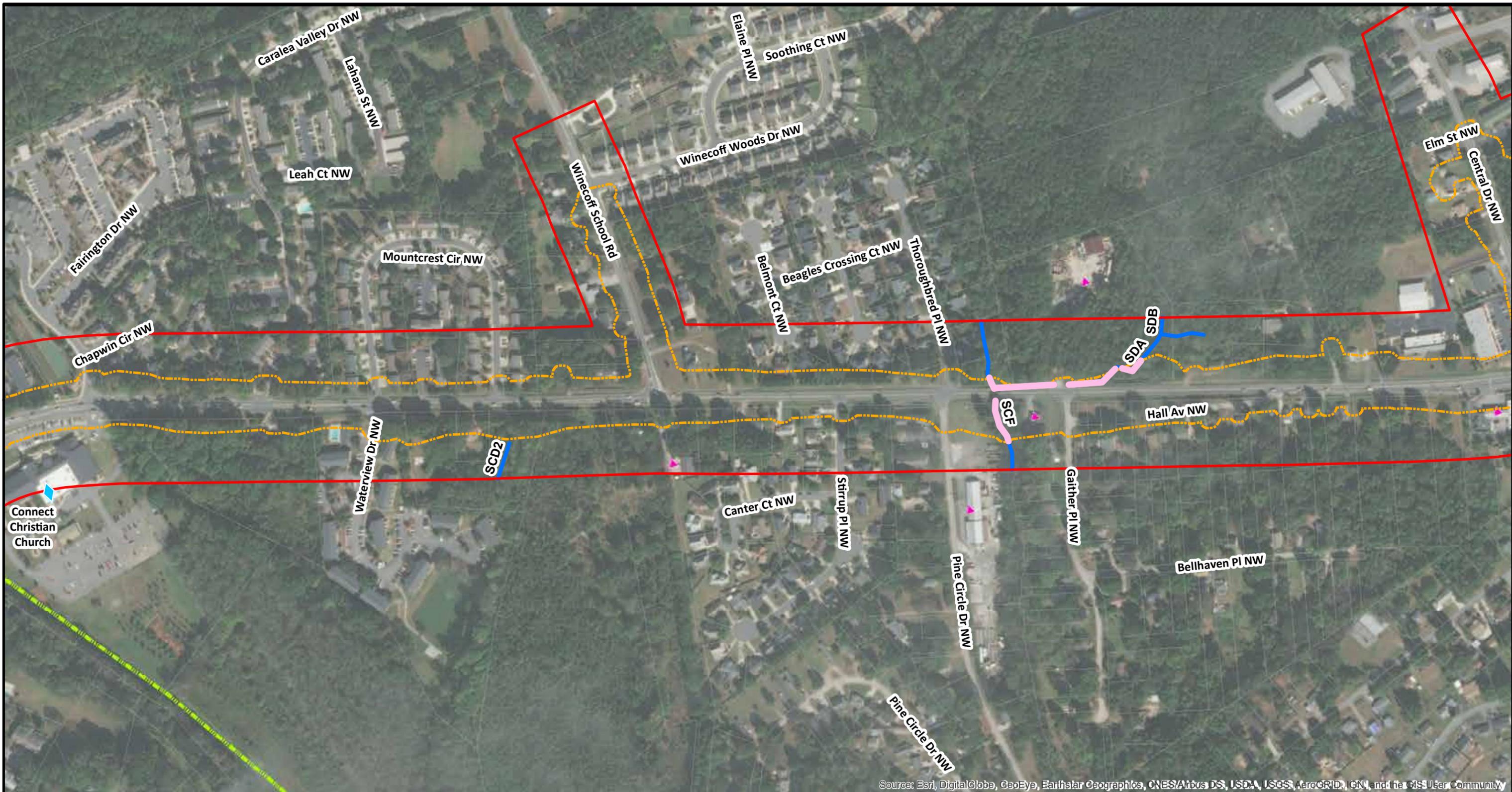


Jurisdictional Features Impacts Map

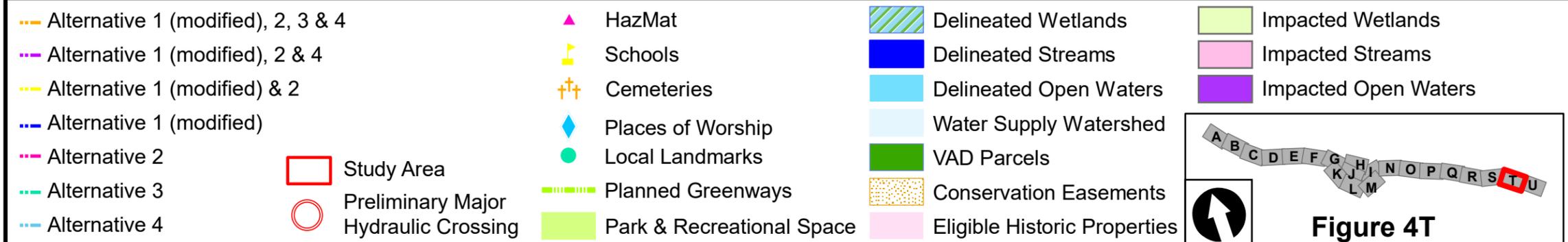
R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
Mecklenburg and Cabarrus Counties
November 2019
Impacts based on slope stakes + 25'

0 500 1,000

Feet



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Jurisdictional Features Impacts Map

R-5706 - NC 73 Widening from Davidson-Concord Road to US 29
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